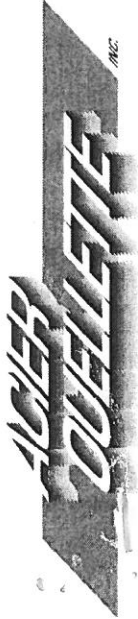




Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Serial No	Status	Receive Date	Price/Unit	Ag Da
PO039034	ACI001-VC	1	1	Net 30	M304B0.125X0.750	M304 B0.125 X 0.750" : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft				12	2/16/2018	12		S043704	Stock	2/20/2018	\$ 1.12 / ft	
		2			MT-4140QT-R0.375	AISI 4140 Quenched & Tempered Steel Round Bar 0.375" Dia.				20		24		S043705	Stock	2/20/2018	\$ 1.08 / ft	
		3			MT-01-B-0.250X0.375	Tool Steel Bar 0.250" H x 0.375" W				3		9		S043706	Stock	2/20/2018	\$ 9.33 / ft	
		4			M6061T6B2.250X4.000	6061T6 Bar 2.250 X 4.000 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				12		12		S043707	Stock	2/20/2018	\$ 38.75 / ft	
		5			M6061T6B2.000X03.500	6061-T6 Bar 2.00 X 3.50 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft						12		S043708	Stock	2/20/2018	\$ 27.78 / ft	
		6			M1018B0.375x0.750	1010-1025 Steel Bar .375 X .750 : MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W receive ft						12		S043709	Stock	2/20/2018	\$ 1.43 / ft	
		7			M1018B0.375x1.250 <i>Sending Back 11' new bar</i>	1010-1025 Steel Bar .375 X 1.250 : MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W receive ft						11		S043710	Stock	2/20/2018	\$ 1.98 / ft	
		8			M4140H-R0.500	4140 Round Bar 0.500" : Material: AISI 4140H ROUND BAR AS PER AISI 4140 OR ASTM A304-02/A-434-BC/A193- 03 GRADE-B7/A29- 03/A322-91 OR UNS # G41400 MIN: ULTIMATE TENSILE STRENGTH = 100 KSI MIN: YIELD TENSILE STRENGTH = 66 KSI				100		60		S043711	Stock	2/20/2018	\$ 2.85 / ft	
		9			MT-4140QT-R0.3125	AISI 4140 Quenched & Tempered Steel Round Bar 0.3125" Dia.				12		12		S043712	Stock	2/20/2018	\$ 0.62 / ft	
		11			M6061T6B1.250X02.000	6061T6 Bar 1.250 X 2.000 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft						12		S043713	Stock	2/20/2018	\$ 10.11 / ft	
Total:										207		176						



ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

DELIVERY - CLIENT

CO00073970

Customer N° CLI0001056
Date 2018/02/13
Delivery date 2018/02/16
Your order N° 039034
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 1

Shipped to

Billed to
DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

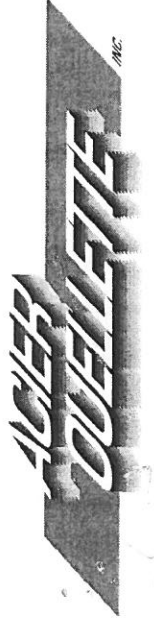
Delivery Route 5

Instruction F-M

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C
1 FLAT SS 1/8 X 3/4 SS304 RANDOM FSS-1834-V 3539 1 X 12' R/L HEAT	3.83	12.00	PI_\$CLB		1x12		12			
2 ROUND 4140 ANNEALED 3/8 RANDOM R4140-38A-V 4951 2x12' OFFER ANNEALED HEAT	7.52	24.00 24.	PI_\$CLB		2x11"11"		2x12' 24			
TRANSIT ST-JEROME LE 14/02										
4 FLAT GRD STOCK 01 1/4 X 3/8 NS FO1-1438 10082 3 X 3' HEAT AC13567-FU-14/02	2.87	9.00	PI		3x		3x 9'			

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

CO00073970

ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N°

CLI0001056

Date

2018/02/13

Delivery date

2018/02/16

Your order N°

039034

Processed by

Josianne Bourdon

Salesman

Carrier

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Page

2

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Instruction F-M

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	OUT
5 FLAT ALU 2 1/2 X 4 6061-T6 NS FAL-2124 1 X 12' HEAT ACI3566-RY-14/02	141.12	12.00	PI_\$CLB				12			
6 FLAT ALU 2 X 3 1/2 6061-T6 RANDOM NS FAL-2312-V 1 X 12' HEAT ACI3566-RY-14/02	101.00	12.00	PI_\$CLB		1X12		12			
7 FLAT CR 3/8 X 3/4 1018 RANDOM FCR-3834-V 1 X 12' R/L HEAT	11.47	12.00	PI_\$CLB		1X12 2"		12			

NIR : R-109516-6

Next Page...



ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
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DELIVERY - CLIENT

CO00073970

Customer N° CLI0001056
Date 2018/02/13
Delivery date 2018/02/16
Your order N° 039034
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 3

Shipped to

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

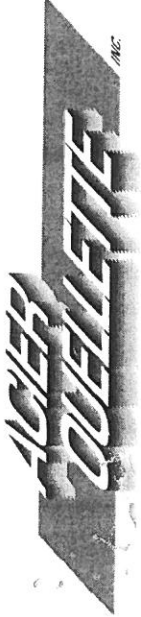
Delivery Route 5

Instruction F-M

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C
8 FLAT CR 5/16 X 1 1/4 1018 RANDOM FCR-516114-V 2924 1 X 12' R/L HEAT TRANSIT ST-JEROME LE 14/02	15.94	12.00	PI_\$CLB		14 11'2"		11'			
10 ROUND 4140 HEAT TREAT 1/2 RANDOM R4140-12H-V 4907 5 X 20' R/L HEAT TRANSIT ST-JEROME LE 14/02	66.80	100.00	PI_\$CLB		5 X 13'3"		60'			
12 ROUND 4140 ANNEALED 5/16 RANDOM R4140-516A-V 4971 1 X 12' R/L HEAT	3.13	12.00	PI_\$CLB		1 X 12'		12'			

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

CO00073970

ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
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Customer N°

Date

Delivery date

Your order N°

Processed by

Salesman

Carrier

Credit Terme

Page

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

At: CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

4

Net 30 Days

Josianna Bourdon

OUELLETTE VALLEYFIELD

039034

2018/02/16

2018/02/13

CLI0001056

CO00073970

Net 30 Days

Josianna Bourdon

OUELLETTE VALLEYFIELD

039034

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Net 30 Days

Josianna Bourdon

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Net 30 Days

Josianna Bourdon

OUELLETTE VALLEYFIELD

039034

2018/02/16

2018/02/13

CLI0001056

CO00073970

Net 30 Days

Josianna Bourdon

OUELLETTE VALLEYFIELD



ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0085290

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Customer N°

CLI0001056

Date

2018/02/09

Revision N°

0

Prices valid until

2018/02/16

Your Order N°

Processed by

Josianne Bourdon

Salesman

JOSIANNE

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

Page

1

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
FLAT SS 1/8 X 3/4 SS304 RANDOM FSS-1834-V 3539 1 X 12' R/L STOCK	3.83	12.00	PI_\$CLB	12.00	PI		1.00	13.430	13.43
ROND STRESSPROOF 3 1/2" 1144 N 1 X 12' 3-4 DAYS	0.00	1.00	UN	1.00	UN		1.00	995.000	995.00
ROND STRESSPROOF 2 3/4" 1144 N 1 X 22' 3-4 DAYS	0.00	1.00	UN	1.00	UN		1.00	925.000	925.00
ROUND 4140 ANNEALED 3/8 RANDOM R4140-38A-V 4951 1 X 20' R/L OFFER ANNEALED 2-3 DAYS	7.52	20.00	PI_\$CLB	20.00	PI		1.00	21.500	21.50
FLAT GROUND STOCK 1/4 X 3/8 N 3 X 3' 3-4 DAYS	0.00	3.00	UN	3.00	UN		3.00	28.000	84.00
FLAT ALU 1 1/4 X 2 6061-T6 RANDOM FAL-1142-V 2456 1 X 12' STOCK NOT AVAILABLE IN 1 1/4 X 1 3/4	35.28	12.00	PI_\$CLB	12.00	PI		1.00	121.350	121.35
AL. PLAT 2 1/4 X 4 N 1 X 12' 2-3 DAYS	0.00	1.00	UN	1.00	UN		1.00	465.000	465.00
FLAT ALU 2 X 3 1/2 6061-T6 RANDOM NS FAL-2312-V 8260 1 X 12' 2-3 DAYS	101.00	12.00	PI_\$CLB	12.00	PI		1.00	333.260	333.26
TUBE MEC 0.750 OD X .188 VARIE 1026 TME-0750188-V 6783 1 X 20' R/L STOCK OFFER 1026	22.56	20.00	PI_\$CPI	20.00	PI		1.00	90.000	90.00
FLAT CR 3/8 X 3/4 1018 RANDOM FCR-3834-V 2904 1 X 12' R/L STOCK	11.47	12.00	PI_\$CLB	12.00	PI		1.00	17.200	17.20

Date :

Next Page...

**ACIER OUELLETTE INC.**

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation**SOU0085290****Billed to**

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Customer N°

CLI0001056

Date

2018/02/09

Revision N°

0

Prices valid until

2018/02/16

Your Order N°**Processed by**

Josianne Bourdon

Salesman

JOSIANNE

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

Page

2

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
FLAT CR 5/16 X 1 1/4 1018 RANDOM FCR-516114-V 2924 1 X 12' R/L 2-3 DAYS	15.94	12.00	PI_\$CLB	12.00	PI		1.00	23.740	23.74 1.97933
FLAT 17-4 PH 1 X 2 N 1 X 12' 2 MONTH	0.00	1.00	UN	1.00	UN		1.00	640.000	640.00
ROUND 17-4 PH 2" DIA N 1 X 6'6" 4-7 DAYS	0.00	1.00	UN	1.00	UN		1.00	430.000	430.00 65.1515
ROUND 4140 HEAT TREAT 1/2 RANDOM R4140-12H-V 4907 5 X 20' R/L 2-3 JOURS	66.80	100.00	PI_\$CLB	100.00	PI		5.00	48.090	240.45 2.4045
ROUND 4140 ANNEALED 5/16 RANDOM R4140-516A-V 4971 1 X 12' R/L 2-3 DAYS	3.13	12.00	PI_\$CLB	12.00	PI		1.00	7.420	7.42 6183
FLAT 4140 HT 5/8 X 3 N 1 X 4' 2-3 DAYS	0.00	1.00	UN	1.00	UN		1.00	110.000	110.00 27.50
SURCHARGE ENERGETIQUE FRAIS_ENERGETIQUE			\$						3.95

Total Weight (Lbs)

267.53

Important

This offer is based on availability and current pricing conditions that may be revised upon reception of the order.

This offer is subject and conditional to credit approval.

Approved and Accepted by :

Sub-total

4 521.30

TVH-13 · · 587.77

Date :

Total (\$CAD)**5 109.07**

**ACIER OUELLETTE INC.**

935, Boul. du H vre
Salaberry de Valleyfield (Qu bec) J6S 5L1
T l.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation**SOU0085420****Billed to**

DART AEROSPACE LTD
1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE T l.: 613-632-5200

Customer N  CLI0001056
Date 2018/02/09
Revision N  0
Prices valid until 2018/02/16
Your Order N 
Processed by Josianne Bourdon
Salesman JOSIANNE
Carrier OUELLE SDV
Credit Terms Net 30 Days
Page 1

Product N� and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
PLAQUE 4140 HT 1 1/4 N 1 X 11" X 72" 7-10 DAYS	0.00	1.00	UN	1.00	UN		1.00	720.000	720.00
SURCHARGE ENERGETIQUE FRAIS_ENERGETIQUE						\$			3.95
<i>David. Drouil</i>									
<i>MT-4140-S-1.2 80x11.000</i>									
Total Weight (Lbs) 0.00									

Important

This offer is based on availability and current pricing conditions that may be revised upon reception of the order.

This offer is subject and conditional to credit approval.

Approved and Accepted by :

Date :

Sub-total 723.95

TVH-13   94.11

Total (\$CAD) 818.06



Order - Sales

Copy

CO00073970

ACIER OUELLETTE INC.
935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl.: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl.: 514-336-4246 Ext.: 866-456-4242

Customer N°

Date

Delivery date

Your order N°

Processed by

Salesman

Carrier

Credit Terme

Page

1

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

OUELLETTE VALLEYFIELD

Net 30 Days

Product Description	Weight	Qty	U/M	PCS NB		Internal Use Only			
				EXP	B/O	IN	I	S	C
1 FLAT SS 1/8 X 3/4 SS304 RANDOM PSS-1834-V 3539 1 X 12' R/L HEAT: 031120	3.83	12.00	PL \$CLB	1.00					
2 ROUND 4140 ANNEALED-3/8 RANDOM R4140-38A-V 4951 2 X 12' R/L OFFER ANNEALED HEAT: 10240170	9.02	24.00	PL \$CLB	2.00					
4 FLAT GRD STOCK 01 1/4 X 3/8 NS FQ1-1438 10082 3 X 3' HEAT: LETTRE 13567 ACI3567-FU-14702	2.87	9.00	PI	3.00					
5 FLAT ALU 2 1/2 X 4 6061-T6 NS FAL-2124 10081 1 X 12' HEAT: 886685	141.12	12.00	PL \$CLB	1.00					

NIR : R-109516-6

Next Page...



ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales

Copy

CO00073970

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Customer N° CLI0001056

Date 2018/02/13

Delivery date 2018/02/16

Your order N° 039034

Processed by Josianne Bourdon

Salesman

Carrier OUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Page 2

Product Description	Weight	Qty	U/M	PCS MB		Internal Use Only			
				CMD	EXP	B/O	IN	I	S C
ACI3566-RY-14/02 6 FLAT ALU 2 X 3 1/2 6061-T6 RANDOM NS PAL-2312-V 8260 1 X 12' HEAT: 200642052 ACI3566-RY-14/02	101.00	12.00	PI_\$CLB	1.00					
7 FLAT CR 3/8 X 3/4 1018 RANDOM FCR-3834-V 2904 1 X 12' R/L HEAT: 2160035	11.47	12.00	PI_\$CLB	1.00					
8 FLAT CR 5/16 X 1 1/4 1018 RANDOM FCR-516114-V 2924 1 X 12' R/L HEAT: 82765	15.94	12.00	PI_\$CLB	1.00					

NIR : R-109516-6

Next Page...



Order - Sales

Copy

CO00073970

ACIER OUELLETTE INC.
935, Boul. du Havre
Salember de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N°

CL10001056

Date

2018/02/13

Delivery date

2018/02/16

Your order N°

Q39034

Processed by

Josianne Bourdon

Salesman

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Page 3

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only			
				CND	EXP	B/O	IN	I	S	C
TRANSIT ST-JEROME LE 14/02				0.00						
10 ROUND 4140 HEAT TREAT 1/2 RANDOM R4140-12H-V 4907	66.80	100.00	PI_\$CLB	5.00						
5 X 20' R/L HEAT: 16202780										
TRANSIT ST-JEROME LE 14/02				0.00						
12 ROUND 4140 ANNEALED 5/16 RANDOM R4140-516A-V 4971	3.13	12.00	PI_\$CLB	1.00						
1 X 12' R/L HEAT: 10235680										
TRANSIT ST-JEROME LE 14/02				0.00						
14 FLAT ALU 1 1/4 X 2 6061-T6 RANDOM FAL-1142-V 2456	35.28	12.00	PI_\$CLB	1.00						
1 X 12' HEAT: 385790										

NIR : R-109516-6

Next Page...



ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales

Copy CO00073970

Customer N°

2018/02/13

2018/02/16

039034

Josianne Bourdon

Salesman

Carrier

Credit Terme

Page

5

4

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

At: CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route

Product Description

SURCHARGE ENERGETIQUE

FRAIS_ENERGETIQUE

Weight

Qty

U/M

\$

PCS NB

EXP

B/O

Internal Use Only

I

S

C

OUT

NIR : R-109516-6

Total Weight (LBS) : 390.46

Conditions :

All sold and delivered materials remain the property of "Acier Ouellette Inc." until payment is made in full, complete and exact. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. This buyer hereby accepts to respect the following conditions: Not 30 days from billing date and the buyer accepts to pay administration charges of 7% per month (7% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by attachment and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with the document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Prepared By :

Verified By :

Delivered By :

Customer's Signature

Y	M	D
---	---	---

Total (\$CAD)

Deposit

Balance

1 504.37

0.00

1 504.37



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO039034

Supplier: ACI001-VC
Acier Ouellette Inc.
935 Boul. Du Havre
Valleyfield
QC
J6S 5L1 Canada
Phone: 800 667 4248
Fax: 450 377 5696

PO No: PO039034

PO Date: 2/13/18

Due Date: 2/16/18

**Purchase Order
Revision:**

Revision Date:

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

E-MAILED
FEB 13 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments: QUOTE NO. SOU0085290, SOU0085420

Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	M304B0.125X0.750		M304 B0.125 X 0.750" : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	2/16/18	12 ft	0 ft	12 ft	\$1.1191666/ft	\$13.43
2	MT-4140QT-R0.375		AISI 4140 Quenched & Tempered Steel Round Bar 0.375" Dia.	Firmed	2/16/18	20 ft	0 ft	20 ft	\$1.075/ft	\$21.50
3	MT-O1-B-0.250X0.375		Tool Steel Bar 0.250"H x 0.375"W	Firmed	2/16/18	3 ft	0 ft	3 ft	\$9.333/ft	\$28.00
4	M6061T6B2.250X4.000		6061T6 Bar 2.250 X 4.000 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	2/16/18	12 ft	0 ft	12 ft	\$38.75/ft	\$465.00

Items										
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
5	M6061T6B2.000X03.500		6061-T6 Bar 2.00 X 3.50 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	2/16/18	12 ft	0 ft	12 ft	\$27.777/ft	\$333.32
6	M1018B0.375x0.750		1010-1025 Steel Bar .375 X .750 : MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W receive ft	Firmed	2/16/18	12 ft	0 ft	12 ft	\$1.433/ft	\$17.20
7	M1018B0.375x1.250		1010-1025 Steel Bar .375 X 1.250 : MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W receive ft	Firmed	2/16/18	12 ft	0 ft	12 ft	\$1.978333/ft	\$23.74
8	M4140H-R0.500		4140 Round Bar 0.500" : Material: AISI 4140H ROUND BAR AS PER AISI 4140 OR ASTM A304-02/A-434-BC/A193-03 GRADE-B7/A29-03/A322-91 OR UNS # G41400 MIN: ULTIMATE TENSILE STRENGHT = 100 KSI MIN: YIELD TENSILE STRENGHT = 66 KSI	Firmed	2/16/18	100 ft	0 ft	100 ft	\$2.85/ft	\$285.00
9	MT-4140QT-R0.3125		AISI 4140 Quenched & Tempered Steel Round Bar 0.3125" Dia.	Firmed	2/16/18	12 ft	0 ft	12 ft	\$0.6183/ft	\$7.42
10	MT-4140-S-1.250X11.000		AISI 4140 Steel Sheet/Plate	Firmed	2/26/18	6 ft	0 ft	6 ft	\$120.00/ft	\$720.00
11	M6061T6B1.250X02.000		6061T6 Bar 1.250 X 2.000 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	2/16/18	12 ft	0 ft	12 ft	\$10.1125/ft	\$121.35
Grand Total:									\$2,035.96	

Order Notes

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 2/13/18 2:46 PM dart.lavoie.chantal



00-18	00-18
DATE:	220-176
PACKING LIST NR	
STPL	
YOUR ORDER	
P00-652	

DESCRIPTION OF PRODUCTS
EXTRA-SS STEEL ROLLER
FORGES PLAT BAS

R421035

ASTM A300 - ASTM A300-ASME SA300 - ASME SA300

[illegible]

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 01 of 02

Certification Date
11-APR-2013

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Invoice Number
T314943

59751
PART NUMBER/NUMÉRO DE PIÈCE

505914

SOLD TO: ACIER OUELLETTE INC
VENDU À:

SHIP TO:
EXPÉDIÉ À:

ACIER OUELLETTE INC.

22 BOULEVARD J-F KENNEDY
ST JEROME QC J7Y 4B6

22 BOULEVARD J F KENNEDY
SAINT JEROME QC J7Y 4

Description: 4140/4142 CF ANN BAR
3/8 RD X 12' R/L
HEAT: 10240170

ASTM A108
Line Total: 22 LB

ITEM: 505914

Specifications:
ASTM A108 07

ASTM A331*

CHEMICAL ANALYSIS

C	MN	P	S	SI	CU	NI	CR
0.42	0.85	0.01	0.024	0.24	0.13	0.06	0.92
MO	TI	NB	AL				
0.21	0.001	0.002	0.024				

RCPT: R938193

COUNTRY OF ORIGIN : USA

END-QUENCH HARDENABILITY (JOMINY - RC) IN															
1	2	3	4	5	6	7	8	9	10	12	14	16	18	20	
57	57	57	57	57	57	57	55	54	52	49	48	45	45	44	
24	28	32													
42	39	37													

IDEAL DIAMETER : 5.1 IN GRAIN SIZE : 5 -

IMPACT TEST		UOM joules		% LAT		DESCRIPTION
TYPE	TEMP	ORNT	SMPL#1 #2 #3	AVG	SHEAR EXPN	
CHARPY	2147					

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession. Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES

T314943

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 02 of 02

Certification Date
11-APR-2013

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

59751
PART NUMBER/NUMÉRO DE PIÈCE
505914

EARLE M JORGENSEN CAN DIV RMCL
1255, AVE LAPLACE
VILLE DE LAVAL QC H7C 2N6

Invoice Number
T314943

SOLD TO: ACIER OUELLETTE INC
VENDU À: 22 BOULEVARD J-F KENNEDY
ST JEROME QC J7Y 4B6

SHIP TO:
EXPÉDIÉ À:

ACIER OUELLETTE INC.
22 BOULEVARD J F KENNEDY
SAINT JEROME QC J7Y 4

Description: 4140/4142 CF ANN BAR
3/8 RD X 12' R/L
HEAT: 10240170

ITEM: 505914

ASTM A108
Line Total: 22 LB

COMMENTS

*ASTM A331 WITHDRAWN, REPLACED BY ASTM A108
CONFORMS TO 1E0509 #22 JT 4-9-13

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du fabricant après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES

CU 73970

DART

PO 13567

CERTIFICATION TYPIQUE D'ANALYSE**AISI TYPE**
01 "Flat Ground Stock"

Le 19 février 2018

ACIER OUELLETTE (VALLEYFIELD)935, boul. Du Havre
Valleyfield, QC J6S 5L1

Votre No. de Bon de Commande:

AC-13567

Notre No. de Facture :

32050

Grandeurs :

 $\frac{1}{4} \times 0.375 \times 36 \text{ In}$

Acier Fusion certifié par la présente, que le matériel décrit ci-haut rencontre les limites chimiques suivantes:

	C	Mn	Si	P	S	Cr	W	Mo	V	Ni
Min	0.850	1.000	0.100	0.000	0.000	0.400	0.400	0.000	0.000	0.000
Max	1.000	1.400	0.500	0.030	0.030	0.700	0.600	0.000	0.300	0.000





SIGNATURE ALUMINUM CANADA

1850 CLEMENTS RD
PICKERING, ON L1W 3R8

CO 73970 PO 13566 N
CERTIFICATE OF COMPLIANCE

10/02/2017	5449420	129220	1
4500832751	034016	886885	11/13/17

001	C-013049-1	144" Mill 6061 T6511	2.5"X4" FLAT BAR SC
1,144 LBS			
1,129 LBS		8 PCS	1 PKGS
AMS-QQ-A-200/8 & ASTM B221-08			

Mechanical Tests:

<u>Tensile</u>	<u>Yield</u>			
<u>MPA / KSI</u>	<u>MPA / KSI</u>	<u>% Elongation</u>	<u>Conductivity</u>	<u>HRE</u>
351.1 / 50.9	318.0 / 46.1	16.2	N/A	98

Chemical Analysis:

<u>Si</u>	<u>Fe</u>	<u>Cu</u>	<u>Mn</u>	<u>Mg</u>	<u>Cr</u>	<u>Zn</u>	<u>Ti</u>	<u>V</u>	<u>Zr</u>
0.61	0.25	0.22	0.05	0.88	0.09	0.04	0.01	0.01	0.00

This Material is Made in Canada

This Material is RoHS Compliant

This will certify that the material described herein has been inspected and tested in accordance with Signature Aluminum Canada's standard sampling and testing procedures or in accordance with the requirements of any specification forming a part of the material description to the extent indicated herein. Data of chemical composition for the material and test results from samples representative of the material are set forth above hereof or in any attachments hereto. This information shows that the material meets the applicable requirements. Inspection and test records are maintained on file. This certificate shall be deemed apart of and subject to the terms and conditions of warranty set forth on the reverse side of our order acknowledgement form. No other warranties are applicable.



S. Mazzotta
Director of Quality
Signature Aluminum Canada Inc

ISO 9001/TS16949 Registered Company

Visit us at www.signaturealum.com

Rev A

KAISER ALUMINUM FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

Best in Class

CERTIFIED TEST REPORT
<http://Online.KaiserAluminum.com>

CUSTOMER PO NUMBER: 4500854818-1		CUSTOMER PART NUMBER: 160001421		PRODUCT DESCRIPTION: 2.000 X 3.500 SC RECT BAR	
KAISER ORDER NUMBER: 6044589	LINE ITEM: 001	SHIP DATE: 01/02/2018	KAISER LOT NUMBER: Z00642052	ALLOY: 8061	TEMPER: T6511
WEIGHT SHIPPED: 494.000 LB	QUANTITY: 5.000 PCS	B/L NUMBER: 621339	DIAM/DAF/THKNS: 	WIDTH: 	LENGTH: 12.000-FT

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00642052	0001	0001	55.2	52.2	11.0	RE 94	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
108060	.74	.29	.28	.09	.93	.09	.04	.03	.00	.00	.00	.01	.03

Applicable Requirements:

ASTM-B221-14 STENCILED ASME-SB221 2009 SECT II AMS-QQ-A-200/8A UNS#A96061 (T6511 also conforms to T6-not applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA

MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Aimee L. Macnowski

Plant Serial: 00315804
Kaiser Order Number: 6044589
Line Item: 001



BRIGHTSTEELS

LIMITED

MANUFACTURERS OF BRIGHT STEEL BARS

NORTON WORKS - MALTON - NORTH YORKSHIRE - ENGLAND - YO17 8BD

T: +44 (0) 1653 602122

F: +44 (0) 1653 695856

E: export@bright-steels.com

Certificate Of Analysis

Date : 23/08/2016

Number : 105738

VAT Registration No. 166 8255 35

UNLESS AGREED OTHERWISE THE MATERIAL DETAILED BELOW HAS BEEN INSPECTED AND TESTED ACCORDING TO PROCEDURES RELATIVE TO OUR BS EN ISO 9001 REGISTRATION TO COMPLY WITH THE REQUIREMENTS OF THE SPECIFICATION AND ORDER. CONFORMS TO EN 10204 2.2. ORIGINAL CERTIFICATES ARE HELD ON FILE.

ORDER LINE	DESCRIPTION AND ORDER DETAILS	CAST NO.	BATCH NO	DESPATCH WEIGHT	UOM
------------	-------------------------------	----------	----------	-----------------	-----

YOUR ORDER NO. : B 95887

OUR ORDER NO. : 171634

BRIGHT MILD FLAT TO ASTM A29-03 (A108-99) 1018

IN 12/123' LENGTHS

TARIFF NO. 7215.50.11

ITEM CODE - V731701

4	3/8" X 3/4"	2160035							PRD-11189601		2185	LBS
CAST	C %	Si %	Mn %	P %	S %	Cr %	Mo %	Ni %	Cu %	Sn %	Al %	
2160035	0.170	0.160	0.770	0.013	0.027	0.120	0.030	0.140	0.210	0.010	0.002	
	V %											
	0.003											

Signed :

Customer Name
ACIER OUELLETTE INC

Customer PO#
OU-76665

Invoice No
70818

Shipper No
66336

Heat Number
82785



NUEVA INCAL, S. A.
aceros calibrados

Gochobara, 24 - Apartado 13
48300 GERNIKA - BIZKAIA Spain
Telephone (34) 94 626 17 12 - 15
Fax (34) 94 626 48 26
nuevaincal@nuevaincal.com
www.nuevaincal.com



CERTIFICADO DE CALIDAD

CERTIFICAMOS : Que el material suministrado con cargo a los pedidos de referencia y amparado por nuestro albarán N° EX/3.452 y Fra. N° A/21.107 corresponden a los análisis y fusiones siguientes de acuerdo con la norma EN 10204 / 2.2:

S./Pedidos N°	Composición Química de la colada									Caract. mecánicas laminado		
	MATERIAL	CALIDAD	COLADA	C. %	Mn. %	Si. %	S. %	P. %		Re N/mm ²	Rm N/mm ²	A %
MON-44311	3/4 X 3/4		553114	0,17	0,74	0,20	0,029	0,013		363,00	500,00	33,00
MON-44311	1 X 1/2		554863	0,17	0,74	0,18	0,021	0,019		333,00	462,00	31,00
MON-44311	1-1/4 X 3/16		82765	0,15	0,73	0,17	0,032	0,014		341,00	503,00	33,30
MON-44311	1-1/4 X 3/8		551250	0,17	0,73	0,21	0,022	0,016		345,00	485,00	33,00
MON-44311	1-1/2 X 3/16		82765	0,15	0,73	0,17	0,032	0,014		366,00	504,00	35,70
MON-44311	1-1/2 X 1/4		85854	0,15	0,70	0,16	0,029	0,014		353,00	519,00	34,90
MON-44311	1-1/2 X 1/2		85853	0,18	0,81	0,20	0,031	0,015		348,00	520,00	36,80
MON-44311	1-1/2 X 1		552888	0,16	0,72	0,18	0,028	0,023		363,00	495,00	35,00
MON-44311	1-1/2 X 1-1/2		554863	0,16	0,73	0,19	0,011	0,026		330,00	478,00	30,00
MON-44311	2 X 3/16		548138	0,18	0,77	0,16	0,018	0,015		371,00	528,00	34,00
MON-44311	2 X 1/4		552890	0,17	0,72	0,19	0,020	0,017		350,00	480,00	35,00
MON-44311	2 X 1/2		552959	0,16	0,74	0,19	0,022	0,012		345,00	490,00	33,00
MON-44311	2 X 1		552126	0,17	0,71	0,17	0,007	0,023		345,00	480,00	35,00
MON-44311	2-1/2 X 3/8		552960	0,18	0,75	0,19	0,024	0,012		345,00	480,00	33,00
MON-44311	3 X 1/2		554008	0,17	0,72	0,23	0,027	0,021		391,00	542,00	33,00
MON-44311	4 X 1/4		552125	0,18	0,72	0,18	0,018	0,019		375,00	465,00	33,00
MON-44311	4 X 3/8		554007	0,16	0,72	0,18	0,025	0,019		389,00	542,00	32,00
MON-44311	4 X 1/2		555755	0,15	0,73	0,15	0,019	0,016		337,00	461,00	31,00

Gernika, 4 de Mayo de 2012

Responsable de Calidad



NUEVA INCAL, S.A.
R.R.

FOR 516114

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

1073970
H 4907 R4140-124-V

Page 01 of 02
Certification Date
16-DEC-2016

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Invoice Number
T361041

AC00001564
PART NUMBER/NUMÉRO DE PIÈCE

SOLD TO: ACIER OUELLETTE INC
VENDU À: 22 BOULEVARD J-F KENNEDY
ST JEROME QC J7Y 4B6

SHIP TO:
EXPÉDIÉ À:

ACIER OUELLETTE INC.
22 BOULEVARD J F KENNEDY
SAINT JEROME QC J7Y 4

Description: 4140/4142 CF ANN BAR
1/2 RD X 12' R/L
HEAT: 16202780

ITEM: 505917

ASTM A108
Line Total: 96 LB

Specifications:
ASTM A108 13
ASTM E381

ASTM A331* 00
ASTM E45

ASTM A304 11
EN 10204 3.1

CHEMICAL ANALYSIS

C	MN	P	S	SI	CU	CR	NI
0.42	0.94	0.01	0.025	0.24	0.16	0.95	0.10
MO	SN	V	CB	AL			
0.18	0.008	0.004	0.003	0.024			

RCPT: R960043

COUNTRY OF ORIGIN : USA

END-QUENCH HARDENABILITY (JOMINY - RC) IN														
1	2	3	4	5	6	7	8	9	10	12	14	16	18	20
57	57	57	57	57	57	57	56	54	53	49	49	46	46	45
24	28	32												
44	41	38												

IDEAL DIAMETER : 5.5 IN GRAIN SIZE : 5

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.
The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES

Joanne Despres

MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 02 of 02

Certification Date
16-DEC-2016

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Invoice Number
T361041

AC00001564
PART NUMBER/NUMÉRO DE PIÈCE

SOLD TO: ACIER OUELLETTE INC
VENDU À:

SHIP TO:
EXPÉDIÉ À:

ACIER OUELLETTE INC.

22 BOULEVARD J-F KENNEDY
ST JEROME QC J7Y 4B6

22 BOULEVARD J F KENNEDY
SAINT JEROME QC J7Y 4

Description: 4140/4142 CF ANN BAR
1/2 RD X 12' R/L
HEAT: 16202780
CLEANLINESS

ASTM A108
Line Total: 96 LB

ITEM: 505917

	A		B		C		D	
	THIN MAX	THICK MAX	THIN MAX	THICK MAX	THIN MAX	THICK MAX	THIN MAX	THICK MAX
e45	1.5	0.5	1.5	0.0	0.5	0.0	1.5	0.5

STRAND CAST VACUUM DEGASSED
MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL
EDDY CURRENT: YES
MACRO: OK
MICRO1: OK

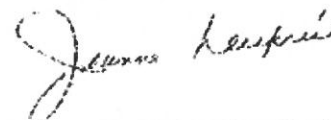
COMMENTS

*ASTM A331 WITHDRAWN, REPLACED BY ASTM A108
red. ratio = 176.0:1
material source: nucor steel - nebraska ne
melted & mfg in usa

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Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 01 of 02

Certification Date
11-APR-2013

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Invoice Number
T314942

59751
PART NUMBER/NUMÉRO DE PIÈCE

505913

SOLD TO: ACIER OUELLETTE INC
VENDU À: 22 BOULEVARD J-F KENNEDY
ST JEROME QC J7Y 4B6

SHIP TO:
EXPÉDIÉ À:

ACIER OUELLETTE INC.
22 BOULEVARD J F KENNEDY
SAINT JEROME QC J7Y 4

Description: 4140/4142 CF ANN BAR
5/16 RD X 12' R/L
HEAT: 10235680

ASTM A108
Line Total: 16 LB

ITEM: 505913

Specifications:
ASTM A108 07

ASTM A331*

CHEMICAL ANALYSIS

C	MN	P	S	SI	CU	NI	CR
0.41	0.86	0.0090	0.025	0.24	0.13	0.07	0.92
MO	B	TI	CB	V	NB	AL	SN
0.21	0.00	0.00	0.002	0.004	0.002	0.026	0.008

RCPT: R912457

COUNTRY OF ORIGIN : USA

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR	ULT TEN	%ELONG	%RED IN AREA	HARDNESS RB 92
-------------	---------	---------	--------	-----------------	----------------------

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Material did not come in contact with mercury while in our possession. Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES

R4A S16

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 02 of 02

Certification Date
11-APR-2013

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Invoice Number
T314942

59751
PART NUMBER/NUMÉRO DE PIÈCE
505913

SOLD TO: ACIER OUELLETTE INC
VENDU À:

SHIP TO:
EXPÉDIÉ À:

ACIER OUELLETTE INC.

22 BOULEVARD J-F KENNEDY
ST JEROME QC J7Y 4B6

22 BOULEVARD J F KENNEDY
SAINT JEROME QC J7Y 4

Description: 4140/4142 CF ANN BAR
5/16 RD X 12' R/L

ASTM A108
Line Total: 16 LB

HEAT: 10235680 ITEM: 505913

END-QUENCH HARDENABILITY (JOMINY - RC) IN

1	2	3	4	5	6	7	8	9	10	12	14	16	18	20
57	57	57	57	57	57	56	54	53	51	49	47	45	44	43
24	28	32												
41	39	37												

GRAIN SIZE :5 -

STRAND CAST MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL

COMMENTS

*ASTM A331 WITHDRAWN, REPLACED BY ASTM A108
melt mill charter steel
hot roll mill charter steel
melt country usa
rod production country usa
caster class strand cast
red. ratio 11/32-325:1;5/16-393:1

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Material did not come in contact with mercury while in our possession. Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES

#2453

FAL-1142-12

PO. 9353
48746**CAN ART**
ALUMINUM EXTRUSION L.P.Material Test Report

Manifest: 709584

Ticket:
1698543

Our Order: 879631-1

Cast P.O.: 791663

Die: ES04038

Part: 160001442

Alloy Temper: 6061 T6511

Description: 1.250 x 2.000 RECT. BAR

Print Date: 6/22/17

Chemical Composition

CastNum	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Maximum OtherEach	OtherTotal
3B5790	0.60	0.17	0.22	0.04	0.81	0.06	0.01	0.02	0.05	0.15

Mechanical Properties

Sample ID	Cast #	Lot #	Test Date	Ultimate Tensile	Yield 2% offset	Elongation 2" gage length
71383	3B5790	A11	6/14/17	44.71	41.46	15.5

Applicable Specifications: ASTM B221-14

AMS-QQ-A200/8A

Country of Origin: ONTARIO, CANADA

Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Aluminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment.

Eric Hotta - Tensile Testing

Authorized:


Evan Eng, Quality Assurance Manager

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-4140QT-R0.375

PO / BATCH NO: 039034/5043705

DATE: FEB 20 2018

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 24'
 QUANTITY INSPECTED: 24'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.375
 THICKNESS RECEIVED: 0.375
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	<u>As per A24 as per A107</u>
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	<u>Heat # 10240170</u>
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.
 RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89 FEB 20 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

8 7 6 5 4 3 2 1

REV.	DESCRIPTION	ECN #	DATE	BY	APPROVE
A	NEW ISSUE	17-790	17.12.13	VM	ML
B	MIN & MAX Rc CHANGED	18-523	18.01.24	VM	ML
C	ADD AISI 4142	18-544	18.02.14	ML	ML

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL : AISI 4140 / 4142 STEEL BAR
MINIMUM ROCKWELL C = 28 Rc
MAXIMUM ROCKWELL C = 32 Rc

SPECIFICATION: ASTM A29, AMS 6349, AMS 6382, AMS 6529, MIL-S-5626, MIL-S-24093

PART NUMBER: MT-4140-B-(T.TTT) x [W.WWW]
WHERE "T.TTT" = THICKNESS IN INCHES
WHERE "W.WWW" = WIDTH IN INCHES
EX. 4.0" x 6.0" BAR = MT-4140-B-4.000x6.000

DART AEROSPACE Hamilton, Ontario, Canada	
TITLE AISI 4140 / 4142 STEEL BAR	
PART NO. MT-4140-B	REV. C
TOOL NO.	
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES DIMENSIONS APPLY AFTER FINISHING	
DESIGNED BY: VM 12/13/2017	INITIALS AND DATE
DRAWN BY: ML 02/14/2018	TOLERANCES: FRACTIONS ± 1/16 DECIMALS ± .005 ANGLES ± 1° SURFACE X ± 1
CHECKED BY: VM 02/14/2018	ROUGHNESS
MFG REVIEW BY: DD 02/14/2018	SCALE: NTS
APPROVED BY: ML 02/14/2018	SHEET 1 OF 1
COPYRIGHT © 2017 BY DART AEROSPACE LTD.	
THIS DOCUMENT IS UNCLASSIFIED TO ANY OTHER PERSON UNLESS WRITTEN IN REMARKS	
FORM DART-00000000-1.00	

8 7 6 5 4 3 2 1

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-4140QT-R0.3125

PO / BATCH NO.: 039034 / 5043712

DATE: FEB 20 2018

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.3125
 THICKNESS RECEIVED: 0.3125
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y	<input type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	<input type="radio"/> N	
CORROSION	<input checked="" type="radio"/> Y	<input type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	<input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	<input type="radio"/> N	<u>ASTM A29 as per A108</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y	<input type="radio"/> N	
PHOTO REQUIRED	<input checked="" type="radio"/> Y	<input type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	<input type="radio"/> N	<u>Heat # 10235680</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	<input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	<input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input type="radio"/> Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input type="radio"/> Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.

RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS 11</u> DATE: <u>FEB 20 2018</u>	SIGNED OFF BY: _____ DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



DESIGN #	DRAWN BY #	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED #	APPROVED #	DRAWING NO. M4140H-R	REV. A SHEET 1 OF 1
DATE 05.02.21		TITLE 4140 ROUND BAR	SCALE 1:1
A	05.02.21	NEW ISSUE	

PURCHASE MATERIAL: AISI 4140H ROUND BAR

PER AISI 4140 OR ASTM A304-02 / -A-434-BC /

-A193-03-GRADE-B7 / -A29-03 -A322-91 OR

UNS # - G41400

MINIMUM ULTIMATE TENSILE STRENGTH = 100 KSI

MINIMUM YIELD TENSILE STRENGTH = 66 KSI

PART NUMBER: M4140H-R | D.DDD | WHERE D.DDD = DIAMETER IN INCHES
DIA.

EG. $\frac{7}{8}$ " ROUND BAR = M4140H-R0.875

RELEASED
05 03 25 #

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M4140H-R0500

PO / BATCH NO.: 039034/5043711

DATE: FEB 20 2018

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 60'
 QUANTITY INSPECTED: 60'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.500
 THICKNESS RECEIVED: 0.500
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORROSION	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	<u>As per A29 as per A108</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
PHOTO REQUIRED	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	<u>Heat # 16202780</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.
 RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u> <u>11</u>	SIGNED OFF BY: _____		
DATE: <u>9-89</u> <u>FEB 20 2018</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6 B1.250x02.000
 DATE: FEB 20 2018

PO / BATCH NO: 039034/5043713

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12
 QUANTITY INSPECTED: 12
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.250
 THICKNESS RECEIVED: 1.250
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORROSION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>Astm B221</u>
CORRECT THICKNESS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
PHOTO REQUIRED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>Heat # 385790</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DA 1</u> DATE: <u>9-8 FEB 20 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QC-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QC-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B | T.TTT | X | WW.WWW |
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
N 2009-06-03
M

REV	DESCRIPTION	BY	DATE
B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (Zn D7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
DESIGN	DS	DART AEROSPACE LTD	
DRAWN	DS	HAWKESBURY, ONTARIO, CANADA	
CHECKED	DS	DRAWING NO.	REV. B
MFG. APPR.	DS	M6061T6B	SHEET 1 OF 1
APPROVED	DS	TITLE	SCALE
DE APPR.	DS	6061-T6 BAR	NTS
DATE	09.07.13	COPYRIGHT © 2001 BY DART AEROSPACE LTD.	

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M1C18B0.375X0.750

PO / BATCH NO.: 039084/5043209

DATE: FEB 20 2018

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.375"
 THICKNESS RECEIVED: 0.375"
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	Y (N)	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	Y (N)	
CORRECT MATERIAL PER M-DRAWING	Y (N)	<u>Astm A102</u>
CORRECT THICKNESS	Y (N)	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	Y (N)	<u>Heat # 21600.35</u>
CORRECT MATERIAL IDENTIFICATION	Y (N)	
CORRECT M# ON THE MATERIAL	Y (N)	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 11</u> DATE: <u>9-20 FEB 20 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 1018-1025 ROUND BAR
SPECIFICATION: MIL-S-7097 OR ASTM A108
PART NUMBER: M1018-R10.DDD WHERE D.DDD = DIAMETER IN INCHES
DIA.

EG. 7/8" ROUND BAR = M1018-R0.875

TOLERANCES: PER ASTM A108 AS FOLLOWS:

SIZE TOLERANCE
UP TO 1.5" INCL. +0.000/-0.002
OVER 1.5" TO 2.5" INCL. +0.000/-0.003
OVER 2.5" TO 4.0" INCL. +0.000/-0.004
OVER 4.0" TO 6.0" INCL. +0.000/-0.005
OVER 6.0" TO 8.0" INCL. +0.000/-0.006

RELEASED
2012-09-24
MP

B	REFORMAT, ADD ASTM A108, ADD TOLERANCES	CP	12.09.05
A	NEW ISSUE	DS	01.06.12
REV.	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	CP		
CHECKED	AP		
MFG. APPR.	MP		
APPROVED	MP		
DE APPR.	MP		
DATE	12.09.05		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M1018-R			
REV. B			
SHEET 1 OF 1			
TITLE			
1018-1025 ROUND BAR			
SCALE			
NTS			
DATE 12.09.05			
COPYRIGHT © 2001 BY DART AEROSPACE LTD			
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: n6061t6B2.000x03.500

PO / BATCH NO.: 039034/5043708

DATE: FEB 20 2018

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 2.000
 THICKNESS RECEIVED: 2.000
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	<u>Astm B221</u>
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	<u>Heat # 200642052</u>
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89 FEB 20 2018</u>	SIGNED OFF BY: _____ DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B | T.TTT | X | WWW.WWW |
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WWW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
R 2009-09-03

B		REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (Zn D7-1)		CP	09.07.13
A		NEW ISSUE		DS	01.06.08
REV.		DESCRIPTION		BY	DATE
DESIGN	DS	DART AEROSPACE LTD			
DRAWN	DS	HAWKESBURY, ONTARIO, CANADA			
CHECKED	DS	DRAWING NO.		REV. B	
MFG. APPR.	DS	M6061T6B		SHEET 1 OF 1	
APPROVED	DS	TITLE		SCALE	
DE APPR.	DS	6061-T6 BAR		NTS	
DATE	09.07.13	COPYRIGHT © 2001 BY DART AEROSPACE LTD			
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6B2.250x4.000

PO / BATCH NO.: 039034/5043707

DATE: FEB 20 2018

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12
 QUANTITY INSPECTED: 12
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 2.250
 THICKNESS RECEIVED: 2.250
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	Astm B221
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	Heat # 886685
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS 11</u>	SIGNED OFF BY: _____		
DATE: <u>9-89 FEB 20 2018</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WW.WWW
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
R 2009-09-03

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211B221 (ZN D7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	DS		
CHECKED	DS		
MFG. APPR.	DS		
APPROVED	DS		
DE APPR.	DS		
DATE	09.07.13		

DART AEROSPACE LTD	
HAWKESBURY, ONTARIO, CANADA	
DRAWING NO.	REV. B
M6061T6B	SHEET 1 OF 1
TITLE	SCALE
6061-T6 BAR	NTS

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NOT TO BE USED FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE LTD

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-01-B-0.250X0375

PO / BATCH NO.: 039034/5043706

DATE: FEB 20 2018

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 9'
 QUANTITY INSPECTED: 9'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.250
 THICKNESS RECEIVED: 0.250
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	tooling use only. Use only for Dart tooling.
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	Heat # 13567
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK.
 RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>11</u> / <u>PD.</u> DATE: <u>FEB 20 2018</u>	SIGNED OFF BY: _____ DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI O1 TOOL STEEL BAR

SPECIFICATION:

DIN 1.2510 or B.S. BO 1 or
SAE J437 or SAE J438
or UNS T31501 or ASTM A681

PART NUMBER:

MT-01-B-[H.HHH]x[W.WWW]
WHERE "H.HHH" = HEIGHT IN INCHES
WHERE "W.WWW" = WIDTH IN INCHES

EG. 4"x6" BAR = MT-O1-B-4.000x6.000

TOLERANCES PER MANUFACTURER SPECIFICATIONS



DART
AEROSPACE

INNOVATION. OXYGEN. COMES

TITLE AISI O1 TOOL STEEL BAR

DESIGN BY: SJC 08/02/2012

CHG APPR: JF 09/07/2012

WFG APPR: DP 09/07/2012

QA APPR: CM 09/12/2017

APPROVED:  09/12/2017

DATE: 9/17/2017

SCALE: NTS

WEIGHT: N/A LBS

SHEET: 1 OF 1

QTY: 2

FRACTIONS: 1/8

ANGLE: 15°

1 DIMENSIONAL PART IN STOCK

2 DIMENSIONAL PART IN STOCK

3 DIMENSIONAL PART IN STOCK

ASME Y14.5M-2009

3 LETTER ALPHABETICALLY

REVISIONS:

DATE: 08/02/2012 BY: SJC

DESCRIPTION: ORIGINAL PART

REV: 1

DATE: 09/12/2017 BY: CM

DESCRIPTION: APPROVED FOR PRODUCTION

MT-01-B

COPIES: 1

COPIES OF THIS DRAWING:

1. 1 FOR THE DESIGN ENGINEER

2. 1 FOR THE QUALITY ENGINEER

3. 1 FOR THE MATERIAL ENGINEER

4. 1 FOR THE PROJECT ENGINEER

5. 1 FOR THE PURCHASING ENGINEER

6. 1 FOR THE SHIPPING ENGINEER

7. 1 FOR THE RECEIVING ENGINEER

8. 1 FOR THE INSPECTION ENGINEER

9. 1 FOR THE TOOLING ENGINEER

10. 1 FOR THE WELDING ENGINEER

11. 1 FOR THE FINISHING ENGINEER

12. 1 FOR THE ASSEMBLY ENGINEER

13. 1 FOR THE PACKAGING ENGINEER

14. 1 FOR THE SHIPPING ENGINEER

15. 1 FOR THE RECEIVING ENGINEER

16. 1 FOR THE INSPECTION ENGINEER

17. 1 FOR THE TOOLING ENGINEER

18. 1 FOR THE WELDING ENGINEER

19. 1 FOR THE FINISHING ENGINEER

20. 1 FOR THE ASSEMBLY ENGINEER

21. 1 FOR THE PACKAGING ENGINEER

22. 1 FOR THE SHIPPING ENGINEER

23. 1 FOR THE RECEIVING ENGINEER

24. 1 FOR THE INSPECTION ENGINEER

25. 1 FOR THE TOOLING ENGINEER

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28. 1 FOR THE ASSEMBLY ENGINEER

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32. 1 FOR THE INSPECTION ENGINEER

33. 1 FOR THE TOOLING ENGINEER

34. 1 FOR THE WELDING ENGINEER

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80. 1 FOR THE INSPECTION ENGINEER

81. 1 FOR THE TOOLING ENGINEER

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84. 1 FOR THE ASSEMBLY ENGINEER

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87. 1 FOR THE RECEIVING ENGINEER

88. 1 FOR THE INSPECTION ENGINEER

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91. 1 FOR THE FINISHING ENGINEER

92. 1 FOR THE ASSEMBLY ENGINEER

93. 1 FOR THE PACKAGING ENGINEER

94. 1 FOR THE SHIPPING ENGINEER

95. 1 FOR THE RECEIVING ENGINEER

96. 1 FOR THE INSPECTION ENGINEER

97. 1 FOR THE TOOLING ENGINEER

98. 1 FOR THE WELDING ENGINEER

99. 1 FOR THE FINISHING ENGINEER

100. 1 FOR THE ASSEMBLY ENGINEER

101. 1 FOR THE PACKAGING ENGINEER

102. 1 FOR THE SHIPPING ENGINEER

103. 1 FOR THE RECEIVING ENGINEER

104. 1 FOR THE INSPECTION ENGINEER

105. 1 FOR THE TOOLING ENGINEER

106. 1 FOR THE WELDING ENGINEER

107. 1 FOR THE FINISHING ENGINEER

108. 1 FOR THE ASSEMBLY ENGINEER

109. 1 FOR THE PACKAGING ENGINEER

110. 1 FOR THE SHIPPING ENGINEER

111. 1 FOR THE RECEIVING ENGINEER

112. 1 FOR THE INSPECTION ENGINEER

113. 1 FOR THE TOOLING ENGINEER

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137. 1 FOR THE TOOLING ENGINEER

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141. 1 FOR THE PACKAGING ENGINEER

142. 1 FOR THE SHIPPING ENGINEER

143. 1 FOR THE RECEIVING ENGINEER

144. 1 FOR THE INSPECTION ENGINEER

145. 1 FOR THE TOOLING ENGINEER

146. 1 FOR THE WELDING ENGINEER

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148. 1 FOR THE ASSEMBLY ENGINEER

149. 1 FOR THE PACKAGING ENGINEER

150. 1 FOR THE SHIPPING ENGINEER

151. 1 FOR THE RECEIVING ENGINEER

152. 1 FOR THE INSPECTION ENGINEER

153. 1 FOR THE TOOLING ENGINEER

154. 1 FOR THE WELDING ENGINEER

155. 1 FOR THE FINISHING ENGINEER

156. 1 FOR THE ASSEMBLY ENGINEER

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160. 1 FOR THE INSPECTION ENGINEER

161. 1 FOR THE TOOLING ENGINEER

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164. 1 FOR THE ASSEMBLY ENGINEER

165. 1 FOR THE PACKAGING ENGINEER

166. 1 FOR THE SHIPPING ENGINEER

167. 1 FOR THE RECEIVING ENGINEER

168. 1 FOR THE INSPECTION ENGINEER

169. 1 FOR THE TOOLING ENGINEER

170. 1 FOR THE WELDING ENGINEER

171. 1 FOR THE FINISHING ENGINEER

172. 1 FOR THE ASSEMBLY ENGINEER

173. 1 FOR THE PACKAGING ENGINEER

174. 1 FOR THE SHIPPING ENGINEER

175. 1 FOR THE RECEIVING ENGINEER

176. 1 FOR THE INSPECTION ENGINEER

177. 1 FOR THE TOOLING ENGINEER

178. 1 FOR THE WELDING ENGINEER

179. 1 FOR THE FINISHING ENGINEER

180. 1 FOR THE ASSEMBLY ENGINEER

181. 1 FOR THE PACKAGING ENGINEER

182. 1 FOR THE SHIPPING ENGINEER

183. 1 FOR THE RECEIVING ENGINEER

184. 1 FOR THE INSPECTION ENGINEER

185. 1 FOR THE TOOLING ENGINEER

186. 1 FOR THE WELDING ENGINEER

187. 1 FOR THE FINISHING ENGINEER

188. 1 FOR THE ASSEMBLY ENGINEER

189. 1 FOR THE PACKAGING ENGINEER

190. 1 FOR THE SHIPPING

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304B0.125X0.750

PO / BATCH NO.: 039034/5043204

DATE: FEB 20 2018

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .125
 THICKNESS RECEIVED: .125
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	Aston A240
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	Heat # 031120
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 11</u> DATE: <u>9-8 FEB 20 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

△C PURCHASE MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE
(NOTE: AISI 303 NOT ACCEPTABLE)

△C SPECIFICATION:

ASTM A276 OR ASTM A240

PART NUMBER:

M304B|T.TT|X|WWW.WWWW|
THICK|WIDTH

WHERE "T.TT" = THICKNESS IN INCHES
AND "WWW.WWWW" = WIDTH IN INCHES

△C EG. 0.5" X 3.0" BAR = M304B0.500X03.000
EG. 0.5" X 12.0" PLATE = M304B0.500X12.000

RELEASED
2010-11-30

C	ADDED PLATE TO PURCHASE MATERIAL, ADDED PLATE RELATED SPECIFICATIONS, AND EG. CHANGED TITLE FROM "304/316 BAR" TO "304/316 BAR/PLATE"	MB	10.11.25
B	REFORMAT DWG. ADD SPECS (ZIN D6-1).	CP	09.07.15
A	NEW ISSUE	PH	05.06.10
REV.	DESCRIPTION	BY	DATE
DESIGN	PH		
DRAWN	PH		
CHECKED	PH		
MFG. APPR.	PH		
APPROVED	PH		
DE APPR.	PH		
DATE	10.11.25		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M304B		REV. C	
TITLE 304/316 BAR/PLATE		SHEET 1 OF 1	
SCALE NTS		SCALE	
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